

WHAT IS CLAIMED IS:

1. An electrical connector, comprising
a first electrical conduit assembly having a first conductive contact and an aperture in said first conductive contact;
a first fastener rotatably received in said aperture, said first fastener having a head member and a body portion, a threaded passageway extending from said head member to a distal end of said body portion, said distal end of said body portion being swaged to prevent said first fastener from being accidentally removed from said aperture;
a second electrical conduit assembly having a second conductive contact;
a second fastener extending outwardly from said second conductive contact and adapted to be threadably received by said passageway of said first fastener.
2. An electrical connector according to claim 1, wherein
a washer is disposed between said first conductive contact and said head member of said first fastener.
3. An electrical connector according to claim 2, wherein
said washer is selected from the group consisting of flat washers and Belleville washers.
4. An electrical connector according to claim 1, wherein
said aperture is countersunk to facilitate swaging said first fastener to said first conductive contact.
5. An electrical connector according to claim 1, wherein
a spacer having a first opening therethrough is disposed on said first fastener proximal said distal end.

6. An electrical connector according to claim 5, wherein
said first opening is countersunk to facilitate swaging said first fastener to
said spacer.
7. An electrical connector according to claim 1, wherein
a boot assembly is disposed on said first conductive contact.
8. An electrical connector according to claim 7, wherein
said boot assembly has a boot cap adapted to cover said head member of
said first fastener.
9. An electrical connector according to claim 8, wherein
said boot cap has a circumferential groove on an inner wall thereof, and
said head member of said first fastener has a circumferential recess
adapted to receive said circumferential groove of said boot cap.
10. An electrical connector according to claim 7, wherein
said boot assembly has a second opening therethrough adapted to receive
said first and second fasteners therethrough.
11. An electrical connector according to claim 1, wherein
said first fastener is made of brass.
12. An electrical connector according to claim 5, wherein
said spacer is made of brass.
13. An electrical connector according to claim 7, wherein
said boot assembly is made of an elastomeric material.

14. An electrical connector according to claim 13, wherein
said elastomeric material is selected from the group consisting of PVC,
TPR and silicone.
15. An electrical connector according to claim 1, wherein
said head member is larger than said aperture.
16. A terminal for an electrical conduit, comprising:
a conductive contact having an aperture therein;
a conductive securing member having a support section and a first locking
section;
said conductive securing member having a threaded through passageway
adapted to threadably receive another terminal;
said securing member support section being rotatably received in said
aperture in said conductive contact, said locking section being formed
after said support section is received in said aperture; and
a second locking section associated with said conductive contact to resist
removal of said conductive securing member from said conductive
contact by engaging said first locking section on said securing
member.
17. A terminal for an electrical conduit according to claim 16, wherein
said locking section is swaged.
18. A terminal for an electrical conduit according to claim 16, wherein
said conductive securing member support section is larger than said
aperture.

19. A terminal for an electrical conduit according to claim 16, wherein
a washer is disposed between said conductive contact and said conductive
securing member support section.
20. A terminal for an electrical conduit according to claim 19, wherein
said washer is selected from the group consisting of flat washers and
Belleville washers.
21. A terminal for an electrical conduit according to claim 16, wherein
said conductive securing member is made of brass.
22. An electrical connector according to claim 16, wherein
a boot assembly is disposed on said conductive contact.
23. An electrical connector according to claim 22, wherein
said boot assembly has a boot cap adapted to cover said support section of
said conductive securing member.
24. An electrical connector according to claim 23, wherein
said boot cap has a circumferential groove on an inner wall thereof, and
said support section of said conductive securing member has a
circumferential recess adapted to receive said circumferential groove
of said groove cap.
25. An electrical connector according to claim 22, wherein
said boot assembly has an opening therethrough adapted to receive said
conductive securing member.

26. A method of electrically and mechanically connecting first and second conduit assemblies, comprising the steps of
inserting a first fastener in an aperture in the first conduit assembly;
swaging a distal end of the first fastener to allow the first fastener to be rotatable within the aperture and to prevent accidental removal of the first fastener from the aperture;
inserting a second fastener connected to the second conduit assembly in an internally threaded passageway of the first fastener; and
rotating the first fastener to draw the second fastener into the internally threaded passageway of the first fastener, thereby creating a secure electrical and mechanical connection between the first and second conduit assemblies without unduly moving the first and second conduit assemblies.
27. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 26, wherein
rotating the first fastener comprises rotating a head portion of the first fastener.
28. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 27, further comprising
positioning a washer between the head portion of the first fastener and the first conduit assembly.
29. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 27, wherein
swaging the distal end of the first fastener comprises swaging the distal end of the first fastener to a conductive contact of the first conduit assembly.

30. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 26, further comprising
positioning a spacer on a distal end of the first fastener before swaging the distal end of the first fastener; and
swaging the distal end of the first fastener to the spacer.
31. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 26, further comprising
covering a portion of the first conduit assembly with a protective boot assembly.
32. A method of electrically and mechanically connecting first and second conduit assemblies according to claim 31, further comprising
covering a head portion of the first fastener with a boot cap of the protective boot assembly.
33. An electrical connector, comprising
a first electrical conduit assembly having a first conductive contact and a first aperture in said first conductive contact;
a first fastener rotatably received in said first aperture, said first fastener having a head member and a body portion, a distal end of said body portion being swaged to prevent said first fastener from being accidentally removed from said first aperture;
a second electrical conduit assembly having a second conductive contact, said second conductive contact being adapted to threadably engage said first fastener.
34. An electrical connector according to claim 33, wherein
said first fastener has a threaded passageway extending from said head member to said distal end of said body portion.

35. An electrical connector according to claim 34, wherein
a second fastener extends outwardly from said second conductive contact,
and is adapted to be received by said first fastener threaded
passageway.
36. An electrical connector according to claim 33, wherein
a portion of said body portion of said first fastener is threaded.
37. An electrical connector according to claim 36, wherein
an inner surface of a second aperture in said second conductive contact is
threaded and is adapted to receive said threaded portion of said first
fastener.
38. An electrical connector according to claim 36, wherein
a second fastener is substantially disposed in a second aperture in said
second conductive contact, said second fastener has a threaded
passageway therethrough adapted to receive said threaded portion of
said first fastener.
39. An electrical connector according to claim 38, wherein
said second fastener is press fit in said second aperture.